

Fiscal Year 2019 Appendices

Missouri State Recycling Program

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Appendix A: FY19 Department Reports of Materials Recycled

Number of Pounds Recycled	Agriculture	Conservation	Corrections	Economic Development	Elementary & Secondary Educ.	Health & Senior Services	Higher Ed & Workforce Development	Commerce & Insurance	House of Representatives	Labor & Industrial Relations	MCHCP	Mental Health	Natural Resources	Office of State Courts Supreme Court	Office of Administration	Public Safety	Revenue	Secretary of State	Social Services	Transportation	State Treasurer	Totals by Material
Aluminum		225	17,122									125	6,143		160					299,448	C	323,223
Ballasts		220									75		46		5,051	600				300		6,292
Batteries (Single-Use & Rechargeable)	18	224	956		20	25						30	2,228	25	6,433	23,489		262		2,321		36,031
Cardboard ***	5,040	2,190	809,189								1,200	59,640	17,540		2,080	21,130	6,500			500		930,805
Carpet													110							100		210
Commingled Materials ***	C	6,100	C	C	C	C	C	C	C	C		C	109,095	C	C	C	C	C	C	60,000	C	677,103
		C											C							C		
Electronic Scrap ***		260	25,581	2,104	6,407				232	1,876	2,301	2,254	1,491	2,320	16,212	15,811	11,865	14	13,333	200		346,458
Food-Yard Waste													264,848			5,200						270,048
Glass		310											9,557									9,867
Magazines & Catalogs		550										589	1,381			50						2,570
Mercury Devices																				26		26
Mixed Office Paper ***	3,630	38,364	23,175	C	C	C	3,810	1,380	1,380	C	4,500	77,236	32,121	C	C	11,340	448,000	356,787	C	22,500	5,359	3,220,811
	C	C	C																			
Newsprint	2,700	290										912	2,112									6,014
Pallets			177,742									1,875	22,500		3,750	23,625				4,500		233,992
Pharmaceuticals												600										600
Plastic ***	3,600	3,508	15,074								750	295	4,138									32,095
Rubber, Tires ***	660	16,765											9,776			130,600				163,100		932,481
Scrap Metal	4,940	56,455	179,716										91,033		62,981	91,810	11,880			2,612,586		3,111,401
Telephone Books												410	224			20						654
Textiles													4,377									4,377
Tin / Steel Cans		15	541,809									286	23									542,133
Totals Reported by Agency	20,588	125,476	1,790,364	2,104	6,427	25	3,810	1,380	1,612	1,876	8,826	144,252	578,743	2,345	96,667	323,675	478,245	357,063	13,333	3,165,581	5,359	

Total Pounds Recycled in FY19: 10,687,191
5,344 Tons

Note on Boxes with C's: A "C" in a box on this table indicates an agency recycled the designated item by utilizing the Jefferson City (JC) or St. Louis (StL) recycling contracts. Materials collected via the JC contract include Mixed Office Paper and Commingled Materials (Cardboard, Aluminum, Plastic, and Steel (tin) Cans). A box that has a number over a "C" indicates the agency reported material that was recycled statewide, but not reported in the JC or StL contract figures. For example, conservation reported 6,100 pounds of commingled recycled and Conservation offices in JC utilized the JC Recycling Services contract to recycle commingled material.

Note on "Totals by Material": This column includes collection totals as reported by the recycling contractor for the following materials: Cardboard, Commingled, Electronic Scrap, Mixed Paper, Plastic, and Rubber Tires. Figures reported by the contractor do not appear in the table on this page; however, these figures are reflected in the "Totals by Material" column. Contractor figures are summarized in a table on page 3 of Appendix A. Agencies that utilized a recycling contract, but do not appear in this table include: Environmental Improvement Energy Resources Authority, Lottery, Tax Commission, MOSERS, Governor’s Office, Attorney General, Auditor, and Senate. Amounts of materials recycled by these agencies are included in the "Totals by Material" column. (see explanation under "contractual reporting" in Appendix A, 3).

Appendix A: FY19 Department Reports of Materials Recycled

Departments Reporting	Number of Items Recycled					Number of Gallons Recycled					
	Books	Cell Phones	Fluorescent Lamps	Printer Cartridges	Fuel/Oil Filters	Anti-freeze	Fuel, Diesel	Fuel, Gasoline	Oil, Cooking	Oil, Motor	Paint
Agriculture				25			350	2,108	1,700	145	
Conservation	50		337	268						1,365	
Corrections			1,350	2,832					192		
Elementary & Secondary Education				16							
Health & Senior Services				44							
MCHCP			96	78							
Mental Health				970		20			2,825	110	
Natural Resources			373	749	145	13			110	3,348	43
Office of Administration			14,140			52				2,175	30
Public Safety	250	300	4,715	1,686		200			1,728	10,165	600
Revenue				2							
Social Services				120							
Transportation		105	4,362			365				9,197	26,262
Treasurer's Office				66							
TOTALS	300	405	25,373	8,670	145	650	350	2,108	6,555	26,505	26,935

Note on Total Printer Cartridges:

3,280 printer cartridges were recycled by employees using a statewide service for this item and are included in the TOTALS amount shown in this table. Note on Agency-Specific Printer Cartridges: Figures appearing for individual agencies may not be an accurate reflection of the number of printer cartridges recycled. In some buildings agencies utilize a centralized recycling drop-off for cartridges and it is not feasible to separate agency data once recycled.

Contract Reporting

Total pounds recycled by agencies utilizing the Jefferson City, St. Louis, Kansas City, onsite document destruction, electronic scrap, and tire contracts are provided in the table below. These figures are reported as cumulative totals. Due to contract reporting, data is reported by building and it is not feasible to separate data by agency where there are multiple agencies in the same building.

All numbers in the table below are reflected in the "Totals by Material" column in the table on the previous page.

FY19 Total Pounds Recycled via Contracts	Jefferson City	St. Louis	Kansas City	Onsite Document Destruction	Other Contracts
Mixed Office Paper	1,228,414		7,252	960,922	
Cardboard			5,796		
Commingled	361,433	140,475			
Electronic Scrap					244,197
Plastic Wrap	4,730				
Rubber, Tires					611,580

Appendix B: FY19 Department Reports for Recycled Content Product Procurement

Non-Paper Recycled Content Procurement	Agriculture	Conservation	Corrections	Economic Development	Elementary & Secondary Education	Health & Senior Services	Higher Education	Insurance, Financial Inst., Professional Reg.	Mental Health	Natural Resources	Office of Administration	Public Safety	Revenue	Social Services	Transportation	Treasurer's Office	Category Totals
Batteries, Rechargeable									\$773	\$67		\$10,094					\$10,934
Carpet / Construction Materials		\$309	\$363	\$676	\$7,481						\$901	\$4,527			\$10,121		\$518,020
Cardboard Boxes	\$28		\$27,274		\$1,088			\$226				\$1,000				\$361	\$149,362
Janitorial Supplies			\$235,331				\$461		\$1,100	\$20	\$1,712	\$16,645					\$724,893
Metal Products			\$63,263										\$1,557,708		\$9,978,620		\$11,825,592
Office Supplies	\$3,219				\$24,712		\$1,733		\$526	\$6,286	\$2,436					\$495	\$443,201
Park Playground Supplies																	\$43,628
Printer Cartridges, Remanufactured	\$377		\$254,073			\$5,112			\$68,307	\$14,119	\$4,120	\$19,492	\$270	\$13,777			\$379,646
Promotional Products										\$4,796	\$140						\$4,936
Remanufactured Furniture												\$2,150					\$377,920
Vehicle Maintenance Supplies			\$348						\$150		\$38,071				\$3,700		\$42,269
Agency Totals	\$3,624	\$309	\$580,652	\$676	\$33,281	\$5,112	\$2,193	\$226	\$70,855	\$25,288	\$47,380	\$53,908	\$1,557,978	\$13,777	\$9,992,440	\$856	

Total Dollars Spent on Non-Paper Recycled-Content Products in FY19 = \$14,520,400

When adding figures in each row the following needs to be considered. Carpet contractors reported agency purchases of \$125,102. Construction Materials contractors reported purchases of \$368,541. Office Supplies contractors reported purchases of \$428,664. MVE provided procurement figures for Cardboard Boxes (\$119,746); Janitorial Supplies-plastic bags (\$469,265); Metal Products (\$226,001); Park & Playground Supplies-Recycled plastic picnic tables and benches (\$43,628); and Remanufactured Furniture & Recycled Fabric (\$375,770). When adding the figures in each row-these amounts need to be included in the sum.

Appendix B: FY19 Purchases of Recycled Paper Compared to Virgin Paper

Product Category	Recycled Paper Purchases	Virgin Paper Purchases	Recycled Paper Purchases as a % of Total Purchases in Product Category		
	FY19	FY19	FY19	FY18	FY17
Fine Paper Products (office, copy, fax)	\$23,310	\$153,873	13%	34%	35%
Course Paper Products (napkins, towels, tissues)	\$1,055,058	\$27,309	97%	100%	96%
Forms (continuous & snap out)	\$1,200	\$8,671	12%	100%	100%
Envelopes (Plain or Printed)	\$79,036	\$15,160	84%	93%	100%
Printing by contractors (40% of total charge is attributable to paper - figures appearing in this row represent paper cost only)	\$293,980	\$740,198	28%	40%	26%
Overall Totals	\$1,452,584	\$945,211	61%	68%	66%

In FY19, 61 percent of agency paper purchases included recycled content. The state of Missouri spent \$23,310 on recycled “Fine Paper Products” in FY19 for approximately 898 cases of recycled paper. A majority of this paper is printer/copier paper made with 30% post-consumer recycled paper. Purchasing this type of recycled paper compared to purchasing the same amount of virgin paper translates into the following estimated benefits:

- ♻ 27.5 fewer tons of wood used – 165 fewer trees
- ♻ 13,000 less gallons of water
- ♻ 71,000 fewer pounds of CO2 equivalent – 6.5 fewer cars on the road each year
- ♻ 600 less pounds of solid waste – 136 Americans generating no waste for one day
- ♻ 6 million fewer BTUs

Citation: *Environmental impact estimates were made using the Environmental Paper Network Paper Calculator Version 4.0*

Appendix B: FY19 Department Reports of Recycled and Virgin Paper Purchases

FY19 Department Detail of Recycled & Virgin Paper Purchases	Fine Paper Products (printer / copier paper)	Course Paper Products (toilet paper / paper towels)	Forms - Continuous & Snap Out (high speed printers)	Envelopes	Printing by Contractors
Judiciary (100)					
SOS (231)					\$49,224
Auditor (251)					
STO (272)	\$21,320	\$532			\$174
	\$1,824	\$190		\$16,791	
AGO (282)					
OA (300)	\$98,899	\$60			\$483,598
MDA (350)	\$7,302	\$8,998	\$8,671	\$389	\$177,622
	\$252				
DIFP (375)					
MDC (400)					
DED (419)					
DESE (500)		\$585			
				\$32,610	
DHE (555)					
					\$56,589
DHSS (580)					
MoDOT (605)	\$3,850				
		\$1,451			
DOLIR (625)					
DMH (650)	\$622				
DNR (780)	\$100				\$5,303
	\$14,701	\$393		\$254	\$12,883
DPS (812)					
	\$6,533	\$12,645	\$1,200		\$47,080
DOR (860)					
DSS (886)	\$7,507				\$7,440
DOC (931)	\$7,273	\$17,135		\$12,270	\$16,837
		\$1,040,380		\$29,380	\$177,427
	\$170,183	\$1,082,369	\$9,871	\$91,694	\$1,034,177
					\$2,388,294

GRAY HIGHLIGHT = VIRGIN

GREEN HIGHLIGHT = RECYCLED